

MS25919D
14 February 2001
SUPERSEDING
MS25919C
28 April 1989

RELAYS, ELECTROMAGNETIC,
TYPE I, 10 AMPERES, 4 PDT

This specification is approved for use by all Departments and Agencies of the Department of Defense.

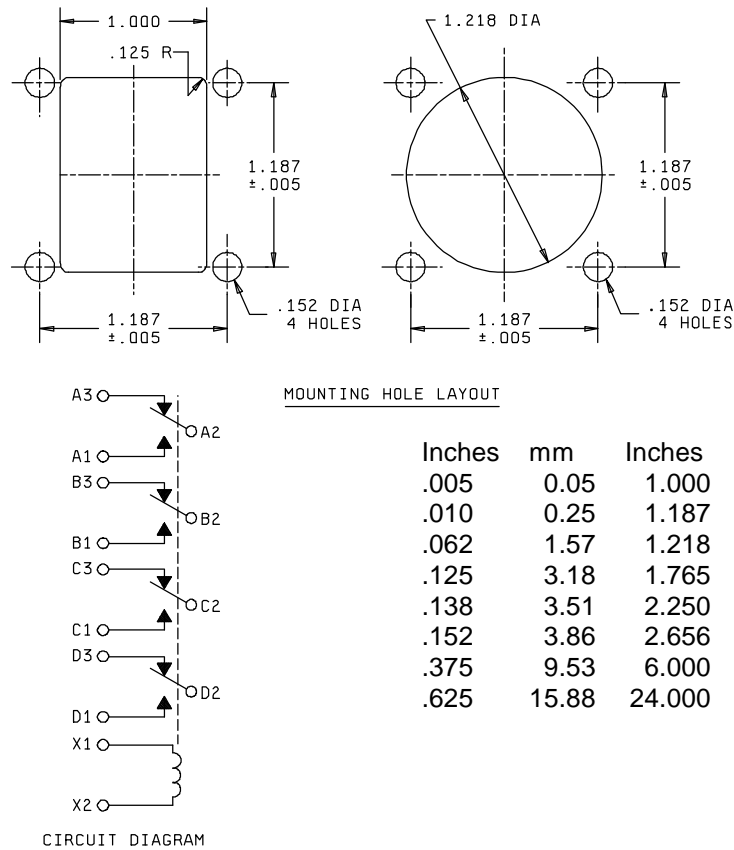
The image contains two technical drawings of electronic components, labeled -1 and -2.

Component -1 (Solder Terminals): This drawing shows a component with a rectangular body and four solder terminals. The overall height is 2.250 MAX. The width is 1.765 MAX. The distance between the terminals is 1.187 ±.010. The terminals are labeled 1, 2, 3, and 4. A red dot is located on the body, labeled "RED DOT FOR LOCATING TERMINALS". The terminals are labeled "138-32 NC 2A (4 STUDS)". The component is labeled "LABEL". The terminals are labeled "SOLDER POTS TO ACCOMMODATE NO. 18 STRANDED WIRE". The component is labeled "4 EACH REQ'D NUTS 1.250 X .093 138-32 NC 2B LOCKWASHERS MS35338-40 WASHERS #6 281.00 X .031 MATERIAL: STEEL FINISH: CORROSION RESISTANT PLATE".

Component -2 (Potted Leads): This drawing shows a component with a rectangular body and four potted leads. The overall height is 2.656 MAX. The width is 1.765 MAX. The distance between the leads is 1.187 ±.010. The leads are labeled 1, 2, 3, and 4. The component is labeled "LABEL". The leads are labeled "138-32 NC 2A (4 STUDS)". The component is labeled "POTTING COMPOUND TO CONFORM TO MIL-PRF-8516 EXCEPT 120°C". The leads are labeled "LEAD WIRE 18 GA MIL-W-8777 PRINTED AT 6" INTERVALS PER CIRCUIT". The leads are labeled "4 EACH REQ'D NUTS 1.250 X .093 138-32 NC 2B LOCKWASHERS MS35338-40 WASHERS #6 281.00 X .031 MATERIAL: STEEL FINISH: CORROSION RESISTANT PLATE".

AMSC N/A 1 of 4
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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Terminal numbers do not appear on the relay header. There shall be affixed to the relay a suitable legible circuit diagram that identifies each terminal location specified. Circuit diagram shown above is the terminal view.
4. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
5. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standard (DoDISS) specified in the solicitation form a part of this standard to the extent specified herein.
6. For details see table I.
7. Unless otherwise specified, tolerance is ± .010 (0.25 mm).

FIGURE 1. Dimensions and configurations - Continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1.

Weight: -1 .5 pounds (227 grams).

-2 .80 pounds (363 grams).

Contact requirements:

Load ratings:

High level (relay case grounded).

Resistive: 10 amperes at 28 V dc, 115 V ac (400 Hz).

Inductive: 7 amperes at 28 V dc, 115 V ac (400 Hz).

Motor: 6 amperes at 28 V dc, 115 V ac (400 Hz).

4 amperes at 115/200 V ac (400 Hz, 3 phase).

Mixed loads: Applicable.

Coil requirements:

Nominal coil voltage: 28 V dc.

Pick up voltage: 18 V dc (over the temperature range).

Hold voltage: 7.0 V dc (over the temperature range).

Dropout voltage: 1.5 V dc (over the temperature range).

Coil current: 0.25 ampere maximum.

Electrical requirements:

Insulation resistance (minimum):

Initial: 100 megohms.

After life or environmental test: 50 megohms.

Dielectric strength:

	Sea level (V rms)		Altitude (V rms)	
	Initial	After life	80,000 feet	
			-1	-2
Coil to case:	1,000	1,000	350	500
All of the points:	1,250	1,000	350	500

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Environmental requirements:

Temperature range: -65°C to +120°C.

Life test requirements: 50,000 cycles minimum.

Qualification by similarity: See MIL-PRF-6106.

Group B and Group C inspections are not applicable.

Group A acceptance reports shall be submitted to the qualifying activity on a yearly basis in order to retain qualification for this detail specification sheet.

Part or identifying number: (PIN): MS25919-1 for solder terminals or MS25919-2 for potted leads.

Custodian:

Navy - AS

Air Force - 11

DLA - CC

Preparing activity:

DLA - CC

(Project 5945-1120-02)